AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A composition comprising a high-purity alicyclic epoxy compound represented by the following general formula (I):

wherein X is a divalent group selected from the group consisting of an oxygen atom, a sulfur atom, -SO-, -SO₂-, -CH₂-, -C(CH₃)₂-, -C(CB₃)₂-, and -C(CF₃)₂-; R¹ to R¹⁸ each may be identical or different from each other and are a hydrogen atom, a halogen atom, a hydrocarbon group that may contain an oxygen atom or halogen atom, or an alkoxy group that may have a substituent.

in which the concentration of high-molecular-weight components having an elution time shorter than that of the alicyclic epoxy compound represented by the general formula (I) in detection by a gel permeation chromatography (hereinafter, GPC) is 5.5% or less with respect to the sum total of all of detected peak areas in terms of the peak area ratio per elution time; and

wherein the alicyclic epoxy compound is produced from a corresponding alicyclic olefin compound with a peracetic acid in a solvent of an ethyl acetate solution.

2. (Currently Amended) The composition high purity alieyelic epoxy compound according to claim 1, in which the concentration of impurities having a retention time shorter than that of the alicyclic epoxy compound represented by the above general formula (I) in detection by gas chromatography is 19.5% or less with respect to the sum total of all of detected peak areas in terms of the peak area ratio per retention time.

3. (Currently Amended) The <u>composition high-purity alieyelic epoxy compound</u> according to claim 1 or claim 2, in which the concentration of reactive intermediate compounds represented by the following general formula (III):

wherein X is a divalent group selected from the group consisting of an oxygen atom, a sulfur atom, -SO-, -SO₂-, -CH₂-, -C(CH₃)₂-, -C(CB₃)₂-, and -C(CF₃)₂-; R¹ to R¹⁸ each may be identical or different from each other and are a hydrogen atom, a halogen atom, a hydrocarbon group that may contain an oxygen atom or halogen atom, or an alkoxy group that may have a substituent,

in detection by gas chromatography is 4.5% or less with respect to the sum total of all of detected peak areas in terms of the peak area ratio per retention time.

(Currently Amended) The <u>composition</u> high purity alieyelie epoxy compound according to claim 1, wherein a color hue, as measured by American Public Health Association value. (APHA) is 60 or less.

5. (Currently Amended) The <u>composition high-purity alieyelic epoxy compound</u> according to claim I, wherein the alicyclic epoxy compound is produced by epoxidizing, with <u>the peracetic an aliphatic percarboxylic</u> acid having substantially no water, [[an]] <u>the</u> alicyclic olefin compound represented by the following general formula (II):

wherein X is a divalent group selected from the group consisting of an oxygen atom, a sulfur atom, -SO-, -SO₂-, -CH₂-, -C(CH₃)₂-, -CBC₂-, -C(CBr₃)₂-, and -C(CF₃)₂-; R¹ to R¹⁸ each may be identical or different from each other and are a hydrogen atom, a halogen atom, a hydrocarbon group that may contain an oxygen atom or halogen atom, or an alkoxy group that may have a substituent.

which is 95.0% or more with respect to the sum total of all of detected peak areas in terms of the peak area ratio determined by a gas chromatography.

(Currently Amended) The <u>composition high purity alieyelic epoxy compound</u> according to claim 5, wherein the alicyclic epoxy compound is obtained by epoxidation followed by the removal of a solvent and purification by distillation.

7. (Currently Amended) A process for the production of a <u>composition comprising a</u> high-purity alicyclic epoxy compound, in which an alicyclic olefin compound represented by the following general formula (II)

is epoxidized with a peracetic an aliphatic perearboxylie acid having substantially no water followed by the removal of a solvent to produce an alicyclic epoxy compound represented by the general formula (I)

wherein in the formulas (I) and (II), X is a divalent group selected from the group consisting of an oxygen atom, a sulfur atom, -SO-, -SO₂-, -CH₂-, -C(CH₃)₂-, -CBr₂-, -C(CBr₃)₂-, and -C(CF₃)₂-; R¹ to R¹⁸ each may be identical or different from each other and are a hydrogen atom, a halogen atom, a hydrocarbon group that may contain an oxygen atom or halogen atom, or an alkoxy group that may have a substituent,

that is in turn subjected to purification by distillation with a [[WFE]] wiped film evaporator to thereby produce the high-purity alicyclic epoxy compound wherein the concentration of high-molecular-weight components having an elution time shorter than that of the alicyclic epoxy compound in detection by GPC analysis is 5.5% or less with respect to the sum total of all of detected peak areas in terms of the peak area ratio per elution time; and

wherein the purification by distillation is carried out at a heating temperature ranging from 180 to 350°C and at a pressure of 50 to 0.01 Torr.

 (Currently Amended) The process for the production of the composition a highpurity alieyelie epoxy compound according to claim 7,

in which the concentration of impurities having a retention time shorter than that of the alicyclic epoxy compound represented by the above general formula (I) in detection by gas chromatography is 19.5% or less with respect to the sum total of all of detected peak areas in terms of the peak area ratio per retention time.

 (Currently Amended) The process for the production of the composition a-highpurity-alicyclic epoxy compound according to claim 7 or claim 8,

the concentration of reactive intermediate compounds represented by the following general formula (III):

wherein X is a divalent group selected from the group consisting of an oxygen atom, a sulfur atom, -SO-, -SO₂-, -CH₂-, -C(CH₃)₂-, -C(CB₁)₂-, and -C(CF₃)₂-; R¹ to R¹⁸ each may be identical or different from each other and are a hydrogen atom, a halogen atom, a hydrocarbon group that may contain an oxygen atom or halogen atom, or an alkoxy group that may have a substituent,

in detection by gas chromatography is 4.5% or less with respect to the sum total of all of detected peak areas in terms of the peak area ratio per retention time.

- 10. (Currently Amended) The process for the production of the composition a highpurity alieyelic epoxy compound according to claim 7, wherein a color hue, as measured by American Public Health Association value, (APHA) is 60 or less.
- 11. (Currently Amended) The process for the production of the composition a high-purity alieyelie epoxy compound according to claim 7, wherein the aliphatic percarboxylic acid is obtained by the oxidation of a corresponding aldehyde.
- 12. (Currently Amended) The process for the production of the composition a highpurity alicyclic epoxy compound according to claim 7, wherein a water content in the aliphatic percarboxylic acid is 0.8% by weight or less.

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13. - 14. (Cancelled)

- 15. (Currently Amended) The process for the production of the composition a high-purity-alieyelic epoxy compound according to claim 8, wherein the aliphatic percarboxylic acid is an ethyl acetate solution.
- 16. (Currently Amended) A photo-curable and/or heat-curable epoxy resin composition comprising the <u>composition comprising the</u> epoxy compound according to claim 1; an epoxy group-containing compound optionally added; and a curing agent or a curing catalyst.
- (Original) A cured product that is obtained by curing the curable epoxy resin composition according to claim 16.
- 18. (Currently Amended) A transparent material for encapsulation made of the composition comprising the high-purity alicyclic epoxy compound according to claim 1.
- 19. (Currently Amended) An adhesive made of the <u>composition comprising the</u> highpurity alicyclic epoxy compound according to claim 1.
- 20. (Previously Presented) The cured product according to claim 17, wherein the cured product is at least one selected from a transparent film, transparent sheet, an insulating material between layers, a coated film, and a paint film.